Honeywell

T8635L Microelectronic Communicating Programmable Thermostat

USER'S GUIDE

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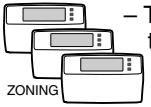
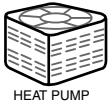
USING THIS GUIDE

The T8635L is a multi-functional thermostat. This means it can be used in several different ways such as single or multi-zone applications, conventional furnaces or heat pump equipment.

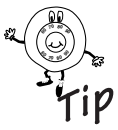
The following symbols will help you identify the features that apply to your system:



– Triple layer of thermostats with the word, zoning, below. These features are available when more than one thermostat is connected and used with the optional W8703 Damper Interface Module.



– Compressor with the word, heat pump, below. These features are available when used with a heat pump with auxiliary heat.



– Tip symbol. Look for helpful tips throughout the guide when you see this symbol.

FEATURES

- Adaptive Intelligent Recovery™ Control for comfort and energy savings.
- Customize the program schedule—program your own schedule to fit your needs.
- Temporary schedule override—set the thermostat higher or lower for the current program schedule.
- Permanent schedule override—set the thermostat higher or lower indefinitely.
- Vacation mode (1 to 255 days) for added comfort and energy savings. Set the temperature higher or lower for energy savings while on vacation. At the same time, set the comfort level you want when you return.
- Set the filter indicator (0, 15, 30, 60, 90, or 120 days) to remind you to change the filter.
- Information at the press of a button—use the [i] (information) key to see the outdoor temperature (C7089B Outdoor Temperature Sensor optional accessory), the current setpoints, or the filter status.
- No batteries needed—your thermostat retains the schedule for the life of the product. You never have to reprogram the schedule even after a power outage. (You may need to reset the day and time after an extended power outage.)
- Daylight Time key for quick time changes between Daylight and Standard time.
- Backlit display for improved readability—set the backlight feature for backlighting on demand (press any key to activate) or continual backlighting. Ask your installer to program this feature.
- Optional outdoor temperature display—ask your installer to install an outdoor temperature sensor to activate this feature.

KEYBOARD AND DISPLAY DESCRIPTION

Keyboard

The keyboard is located behind the thermostat cover. Three frequently used keys, increase ▲ or decrease ▼ and [i], are located next to the display. See Fig. 1.

Display

The thermostat displays important information such as day, time, schedule period, temperature, filter information, system and fan operation. See Fig. 2.

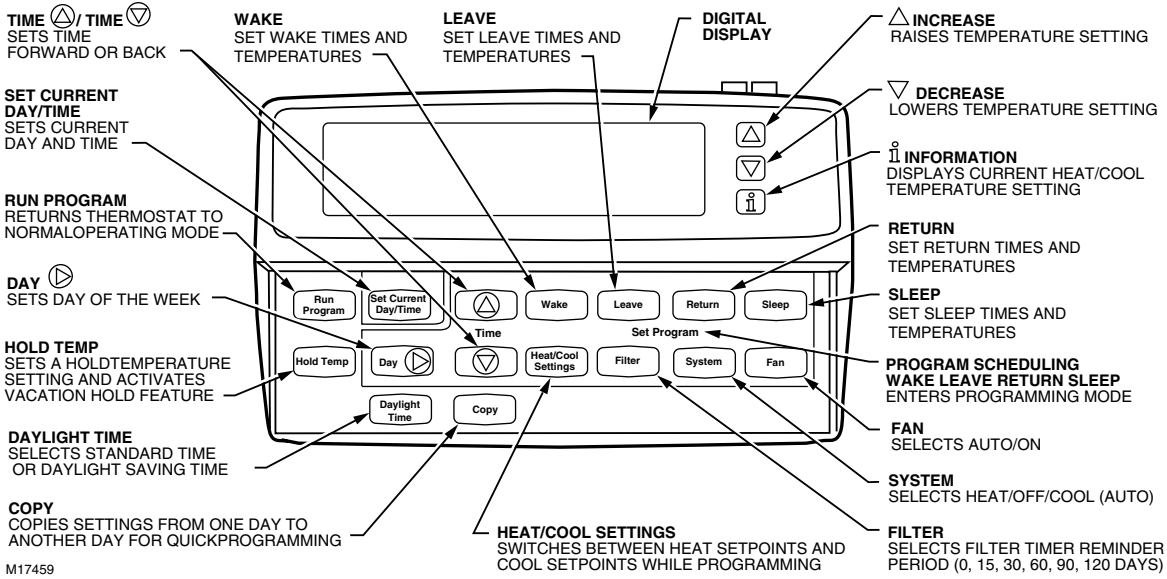


Fig. 1. Thermostat keyboard description.

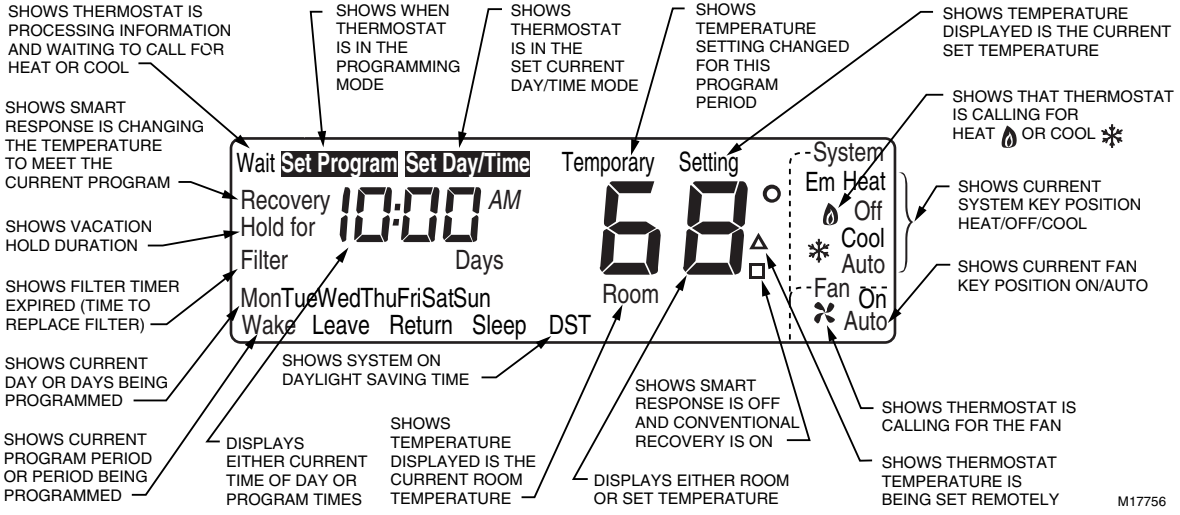

SHOWS THERMOSTAT IS PROCESSING INFORMATION AND WAITING TO CALL FOR HEAT OR COOL
SHOWS WHEN THERMOSTAT IS IN THE PROGRAMMING MODE
SHOWS THERMOSTAT IS IN THE SET CURRENT DAY/TIME MODE
SHOWS TEMPERATURE SETTING CHANGED FOR THIS PROGRAM PERIOD
SHOWS TEMPERATURE DISPLAYED IS THE CURRENT SET TEMPERATURE
SHOWS SMART RESPONSE IS CHANGING THE TEMPERATURE TO MEET THE CURRENT PROGRAM
SHOWS THAT THERMOSTAT IS CALLING FOR HEAT OR COOL
SHOWS VACATION HOLD DURATION
SHOWS CURRENT SYSTEM KEY POSITION HEAT/OFF/COOL
SHOWS FILTER TIMER EXPIRED (TIME TO REPLACE FILTER)
SHOWS CURRENT FAN KEY POSITION ON/AUTO
SHOWS CURRENT DAY OR DAYS BEING PROGRAMMED
SHOWS SYSTEM ON DAYLIGHT SAVING TIME
SHOWS SMART RESPONSE IS OFF AND CONVENTIONAL RECOVERY IS ON
SHOWS THERMOSTAT IS CALLING FOR THE FAN
SHOWS CURRENT PROGRAM PERIOD OR PERIOD BEING PROGRAMMED
DISPLAYS EITHER CURRENT TIME OF DAY OR PROGRAM TIMES
SHOWS TEMPERATURE DISPLAYED IS THE CURRENT ROOM TEMPERATURE
DISPLAYS EITHER ROOM OR SET TEMPERATURE
SHOWS THERMOSTAT TEMPERATURE IS BEING SET REMOTELY
M17756
Wait Set Program Set Day/Time
Temporary Setting
Recovery
Hold for
Filter
10:00 AM
Days
MonTueWedThuFriSatSun
Wake Leave Return Sleep DST
68 °
Room
System
Em Heat
Off
Cool
Auto
Fan On
Auto

Fig. 2. Example of thermostat display.

ADAPTIVE INTELLIGENT RECOVERY™ CONTROL

Your new thermostat is so smart, it's almost human. You perceive temperature from a variety of sources, not only from the air in the room, but also from your surrounding walls, windows and furnishings. Humans feel differences in temperature as slight as two degrees Fahrenheit. Common household thermometers and standard thermostats sense only air temperature, which may not reflect how hot or cold the room actually feels to you. Your new thermostat reads both the temperature of the wall and in the air, and responds to temperature changes as little as one degree Fahrenheit, so room temperature is more likely to feel right to you and your family.

The thermostat acts like a computer. When calculating the time to turn on your heating or cooling system, it considers air temperature, wall temperature, and the time you want to reach the comfort temperature. After considering these three things, Adaptive Intelligent Recovery™ control gradually changes the temperature from the energy savings setting to the comfort setting (for example, from a heating temperature of 62° at night to 70° in the morning).

The system runs continuously until the comfort temperature you choose is reached without overshooting the setting. This saves energy. How do you know when the system is in recovery? The thermostat displays "Recovery" whenever the thermostat activates Adaptive Intelligent Recovery™ control. See Fig. 3. So, "Recovery" displays during the recovery time from Sleep to Wake and from Leave to Return.

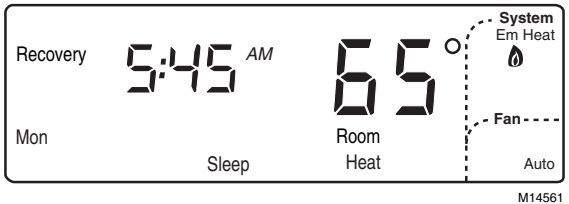
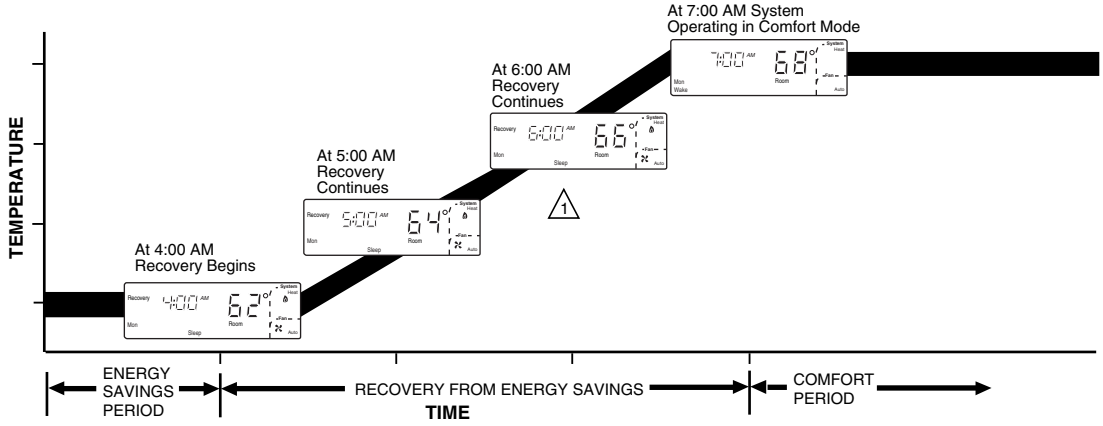


Fig. 3. Example of "Recovery" indication.

After installation or new schedule programming, your thermostat learns from experience. Each day it checks how closely it hit the recovery target (for example, 70° at 6:00 AM) and adjusts the next day's recovery start time accordingly. After four to eight days, the thermostat has adjusted to local weather, your lifestyle, the construction of your home, and your heating and cooling system.

Optimum Comfort and Energy Savings

In Fig. 4, Adaptive Intelligent Recovery™ control starts to recover at 5:00 AM and reaches the comfort temperature of 68° at 6:30 AM. Recovery time varies with the starting temperature and the comfort temperature you choose.



THE THERMOSTAT USES THE SAME SCHEME TO RETURN GRADUALLY TO LOWER COMFORT TEMPERATURE DURING THE COOLING SEASON.

1 IF **In Recovery** IS DISPLAYED, PRESS i TO SEE THE COMFORT SETPOINT.

M17758

Fig. 4. Explanation of Adaptive Intelligent Recovery™ control.

OPERATING YOUR THERMOSTAT

Your new thermostat saves energy and keeps you comfortable at the same time. By now you may be wondering how to program your thermostat and how to use some more time and energy-saving features.

First, let's look at features you'll be using often, like setting the System and Fan keys, how to override the current programming mode or to hold the thermostat at a specific temperature while you go on vacation. You can even program the thermostat to return to your regular programming schedule on your last day of vacation so you are comfortable when you return and yet save energy while you are away.

Setting System and Fan Keys

Use the System and Fan keys to change the system and fan settings. The fan settings can be set for each schedule period individually. The system selection is for all the schedule periods.

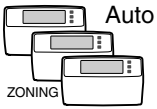
⚠ CAUTION

Equipment Damage Hazard.
Can cause permanent damage to the compressor or other equipment.
To avoid possible compressor damage, allow the compressor to remain off for five minutes before restarting.
To avoid possible equipment damage, do not operate cooling when the outside temperature is below 50°F (10°C). See equipment manufacturer instructions.

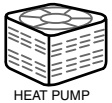
Setting the System Key

Press the System key until the desired system (Heat, Off, Cool, or Auto) displays. System

Heat: The thermostat controls the heating.
Off: Both the heating and cooling are off.
Cool: The thermostat controls the cooling.
Auto: The thermostat automatically changes between heating and cooling operation, depending on the indoor temperature.



Auto is not available when used with zoning. Changing any thermostat system setting on any thermostat automatically changes the system setting in all zones. For example, changing the zone 1 thermostat from Heat to Cool causes all thermostats to change from Heat to Cool.

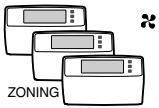


Em.Ht: Emergency heat is controlled as stage 1 heat. Cooling system is off. Compressor is de-energized. (Available only with multistage heat pump.)

Setting the Fan Key

Press Fan key until the desired mode (On or Auto) displays: Fan

On: Fan operates continuously.
Auto: Fan operates only when heating or cooling.



displays when the thermostat is calling for the fan in this zone. A flashing indicates that the thermostat is waiting until another zone has completed its call for heat or cool before initiating the fan call for this zone.

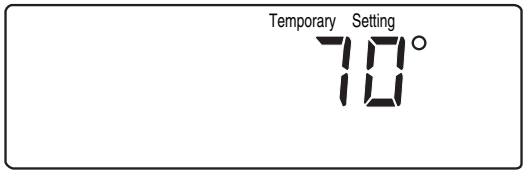
Setting Temporary Temperatures

You can override the current schedule period to temporarily change the temperature setting until the next schedule period, or you can change and hold the temperature setting indefinitely. You can also change the temperature setting until a designated day and period (for example, while you are on vacation).

Changing Temperature to Temporary Setting Until Next Schedule Period

Press increase ▲ or decrease ▼ until the desired temperature setpoint displays.

The temporary temperature setting you select displays for approximately three seconds. The display reads “Temporary” until the next period begins or when you cancel the temporary temperature setting.



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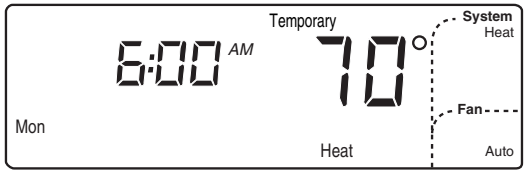
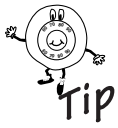
While selecting a temporary setting, only the setpoint displays.

Press the Run Program key to cancel the temporary temperature setting before the designated time. Run Program



After selecting a temporary setting, the display reads "Temporary" until canceled. Example display shows temporary heat setting of 70° at 6:00 AM.



If ▲ or ▼ appears under the temperature display, it means that both the heating and cooling setpoints are being adjusted. Tapping the increase ▲ or decrease ▼ key changes both the heat and cool setpoints by one degree. Press [i] key after the desired setpoint is reached to verify the setpoints.

Changing and Holding Temperature Setting Indefinitely

1. Press Hold Temp key once. Hold Temp

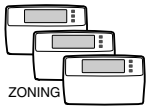
2. Press increase ▲ or decrease ▼ to change the temperature setpoint, if desired.

   NOTE: The display changes from the setpoint to the room temperature after approximately three seconds.

Press Hold Temp key once to display the thermostat in Hold mode. Example display shows temporary heat setting of 60°.

Press Run Program key to cancel hold. Run Program

Changing Temperature Setting Until a Designated Day and Period (Vacation Hold)



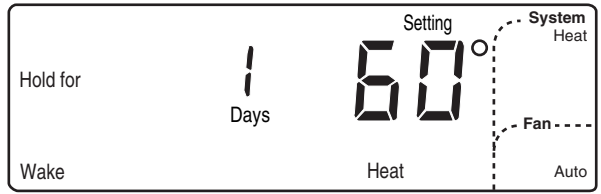
When setting Vacation Hold at any thermostat, all thermostats automatically change to Vacation Hold except if a thermostat is already set to Hold.

1. Press Hold Temp key twice. (Hold Temp)

IMPORTANT

To cancel the Vacation Hold before the designated time, press Run Program key.

2. Press Time △ or Time ▽ until the desired number of days (1 to 255 days) displays.



M14833

Press Hold Temp key twice to display the thermostat in Vacation mode. Example display shows temporary heat setting of 60°.

M14834

Press the Time △ or Time ▽ key to select the number of vacation days. Example display shows 18 vacation days.

Press Wake, Leave, Return or Sleep key to select the period the Hold ends.

M14571

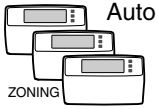
In this example, the Hold ends after the 18th day at the beginning of the Return period.

4. Press increase ▲ or decrease ▼ to adjust the temperature setting, if desired.

NOTE: Only the heating temperature is used when the System is set to Heat. Similarly, only the cooling temperature is used when the System is set to Cool. The thermostat uses both the heating and cooling temperatures when the System is set to Auto.

M14572

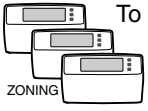
Press increase ▲ or decrease ▼ key to select a new Hold temperature. Example display shows temporary heat setting of 55°.



Auto changeover is not an available feature.

5. Press Heat/Cool Settings key to change between heat and cool settings. (Heat/Cool Settings)

6. Press increase ▲ or decrease ▼ to adjust the temperature setting, if desired (for example, if cool is set at 84°, cooling equipment operates when the room temperature is above 84°F).



To cancel the Vacation Hold before the designated time, press Run Program key at each thermostat.

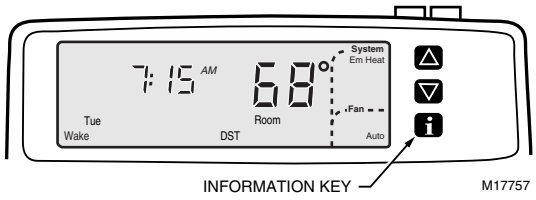
Pressed the wrong key?
Want to start over?

Don't worry!
You can always press (Run Program)
to return display to normal.

Using the (Information) Key

The (information) key provides information at your fingertips. The sequence of key presses is:

- Outdoor temperature (if equipped).
- Current setpoint of mode in use (Heat or Cool).
- Setpoint of mode not currently in use.
- Filter status.

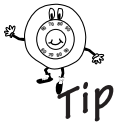


If the filter status is expired, refer to Filter Indicator section, the sequence of key presses is:

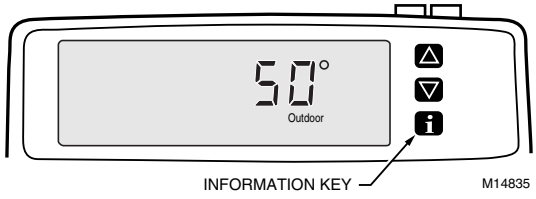
- Filter status.
- Outdoor temperature (if equipped).
- Current setpoint of mode in use (Heat or Cool).
- Setpoint of mode not currently in use.

Displaying Outdoor Temperature

Press key once to display outdoor temperature (if equipped).



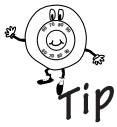
If the filter status is expired, press key twice to display outdoor temperature. See Filter Indicator section for instructions on resetting the filter indicator.



Press key once to display the outdoor temperature. Example display shows outdoor temperature at 50°.

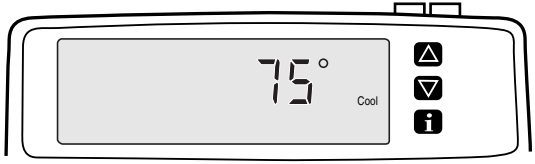
Displaying Current Settings

Press [i] key twice to check the current temperature setpoint. Press [i] key three times to check the temperature setpoint of the mode not currently in use.



Without outdoor temperature sensor, press [i] key once to display current setpoint; press [i] key twice for opposite setpoint.

If the filter status is expired, press [i] key three times to check current temperature setpoint, if equipped with outdoor sensor.

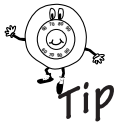


M17761

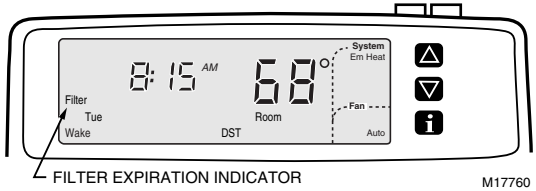
Press [i] key twice to display current setpoint.
Example display shows cooling setpoint of 75°.

Filter Indicator

Your thermostat monitors the time the fan is running and lets you know when to replace the filter, based on the number of fan run-time days you select. Upon expiration, the thermostat displays “Filter” and the green LED lights (on the top right of the thermostat).



One fan run-time day equals twenty-four hours of fan run time. For example, if the fan is on only one-third of the time each day, it takes three days to deduct one fan run-time day.



M17760

Setting or Resetting Filter Indicator

Your thermostat comes preset to a 30-day setting. To change this setting, or reset after filter expiration:

1. Press Filter key to enter the Filter mode. Filter

M14577

Press the Filter key to display filter information. Example display shows current fan run time set to 30 days with the filter set to expire in 5 days.

2. Press and hold the Filter key for at least three seconds to reset the fan run time. Filter

Hold down the Filter key to reset the counter.

3. Press Time ⏶ or Time ⏷ until the desired number of days displays (0, 15, 30, 60, 90, or 120). ⏶ ⏷

TIME

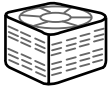
4. Press Run Program key to return to normal operation. Run Program

IMPORTANT

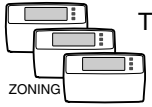
To track the time the fan is running, you must select a setting other than 0 (0 means off). If the setting is 0 days, the display always shows "0 Days; 0 Setting" when the Filter key is pressed.

LED Indicators

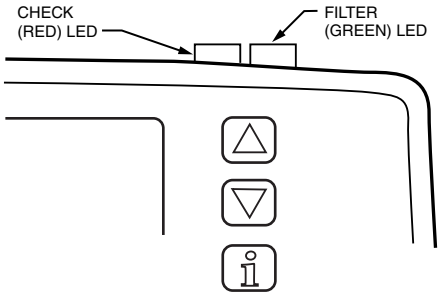
Two light emitting diode (LED) indicators are located on the upper right side of the thermostat. The LED indicators are clear until lighted. When the right filter expiration LED indicator lights (green), see the Filter Indication section; when the heat pump check LED indicator lights (red), see the Troubleshooting section.



The Check LED indicates a failure detected with the heat pump. Switch the thermostat to Em. Ht. and contact your heat pump service company for assistance. Heating with Em.Ht. may be more expensive so act quickly.

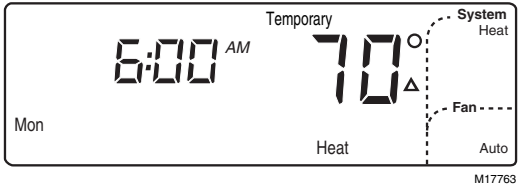


The LED indicators light on all thermostats.



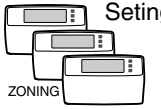
Remote OverrideTemperature Indicator

The thermostat can communicate with a variety of system controllers. If the temperature was overridden remotely, a (△) is displayed and “Temporary” flashes.



SETTING THE CLOCK

Setting Current Day and Time



Seting the time and day at one thermostat automatically sets the time and day on all thermostats.

IMPORTANT

Always press the keys with your fingertip or similar blunt tool. Sharp instruments like pens and pencil points can damage the keyboard.

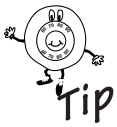
On initial power up or after an extended power loss, “1:00 PM” flashes on the display until a key is pressed.

1. Press Set Current Day/Time key. (Set Current Day/Time)

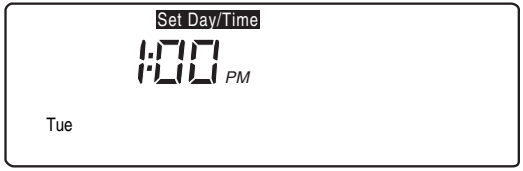
M14580

Press Set Current Day/Time key to show information displayed.

2. Press Day key until the current day displays. Day



Mon = Monday, Tue = Tuesday, Wed = Wednesday,
Thu = Thursday, Fri = Friday, Sat = Saturday,
Sun = Sunday.

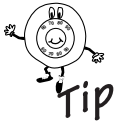


M14581

Press Day key to set the current day.
Example display shows Tuesday.

3. Press Time ⏶ or Time ⏷ key until the current time displays.

TIME



Tap the Set Current Day/Time key to advance the time in one-hour increments. Set Current Day/Time

4. Press Run Program key to return to normal operation.

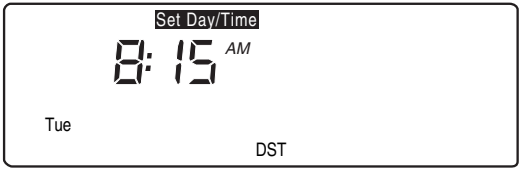
Run Program

M14582

Press Time ⏶ or Time ⏷ key to set the current time.
Example display shows 8:15 AM.

Daylight Saving Time

NOTE: If the current time is Daylight Saving Time, press Daylight Time key to display “DST.” Daylight Time



M14583

Press Daylight Time key to set Daylight Saving Time.

Pressing Daylight Time key more than once within a five minute period scrolls you through various time options (example: one hour earlier or later with or without DST). Pressing Daylight Time key six times in a five minute period returns you to your original setting.

PROGRAMMING YOUR THERMOSTAT

7-Day Program and Operation

Your thermostat is 7-day programmable. 7-day programming means you can set your thermostat for four periods (Wake, Leave, Return and Sleep) and up to eight temperatures (four Heat and four Cool) for each day of the week. Each day can be the same or different.

Program Periods:

WAKE The program period when you want the house at a comfortable temperature when you get up and while you get ready for work or school. (This is a higher temperature during the heating season and a cooler temperature during the cooling season.)

LEAVE The program period you can set for an energy saving temperature while you are away at work or school. (This is a lower temperature during heating season, and higher temperature during cooling season) and it follows the WAKE period.

RETURN The program period when you want the house at a comfortable temperature for activities before bedtime. (This is a higher temperature during the heating season and a cooler temperature during the cooling season) and it follows the energy-saving LEAVE period.

SLEEP The program period you set for an energy-saving temperature while you are sleeping. This is a lower temperature during heating season, and higher temperature during cooling season) and it follows the RETURN period.

7-Day Preprogrammed Schedule

Your thermostat is preprogrammed with the schedule shown in Table 1 (same schedule for all days of the week). You may keep this schedule or develop your own. Before starting the programming procedure, use Table 2 to plan your schedule.

Instructions:

1. Write the time you want for each program period.
2. Write the heating and cooling temperatures you want for each period.
3. Draw a circle around the fan operation you desire for each period.

Table 1. 7-Day Preprogrammed Schedule.

	WAKE		LEAVE		RETURN		SLEEP	
ALL DAYS	TIME FAN H 70 (21)	6:00 AM AUTO C 78 (2.5)	TIME FAN H 62 (16.5)	8:00 AM AUTO C 85 (29.5)	TIME FAN H 70 (21)	6:00 PM AUTO C 78 (25.5)	TIME FAN H 62 (16.5)	10:00 PM AUTO C 82 (28)

Customizing Your Own 7-Day Schedule

Table 2. Your 7-Day Schedule.

	WAKE	LEAVE	RETURN	SLEEP
SUNDAY	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C
MONDAY	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C
TUESDAY	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C
WEDNESDAY	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C
THURSDAY	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C
FRIDAY	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C
SATURDAY	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C	TIME FAN AUTO ON H C

About Power Outages…
Don't worry! Your thermostat retains the schedule (preprogrammed or your own) for the life of the product. The time and day information is **retained for a minimum of twenty minutes** during a power outage. After a longer power outage, you may need to set the current time and day ("1:00 PM" flashes on the display), but the schedule is retained.

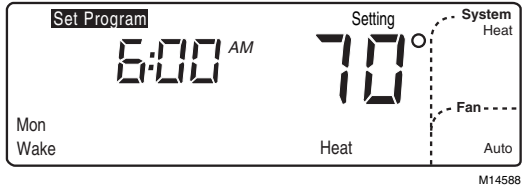
Programming the First Day

To modify the preprogrammed schedule, start by programming the Wake time and temperature and fan operation for any one day.

1. Press the Wake key. Wake

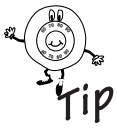
Press the Wake key to enter the program mode. Example display shows 6:00 AM on Tuesday with Heat set to 70°F.

2. Press Day key until the desired day displays. Day



Press Day key to select the day to program. Example display shows Monday is selected and ready to program.

3. Press Time ⏶ or Time ⏷ key until the desired Wake time displays.

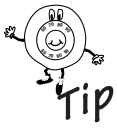


The program times are in fifteen-minute intervals; for example, 8:00, 8:15, 8:30.

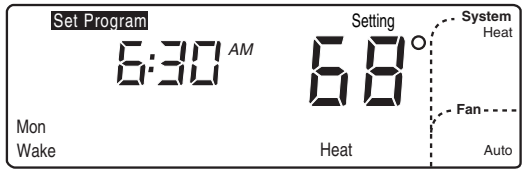
M14589

Press the Time ⏶ or Time ⏷ key to select the time the Wake period will begin. Example display shows the Wake period will begin at 6:30 AM.

4. Press increase ▲ or decrease ▼ key until the desired Wake temperature displays. ⏶ ⏷



The setpoint temperature range is 40 to 90°F (4 to 32°C) for heating and 55 to 99°F (13 to 37°C) for cooling.



M14590

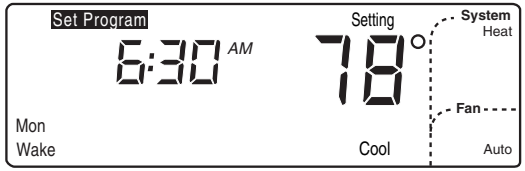
Press increase ▲ or decrease ▼ key to select the temperature for the Wake period. Example display shows the heating Wake period set for 68°.

5. Press Fan key to modify fan operation. Selecting Auto means the fan runs only when the heating or cooling equipment is operating. Selecting On means the fan runs continuously for the entire schedule period.

Fan

6. Press Heat/Cool Settings key to make selections for the opposite system setting (either Heat or Cool).

Heat/Cool Settings



Press Heat/Cool Settings key to select the cooling system (if you previously set the heating temperature). The current setting displays. Example display shows the cooling system previously set for 78°.

7. Press increase ▲ or decrease ▼ key until the desired temperature setpoint displays. △ ▽

Press increase ▲ or decrease ▼ to select the cooling Wake temperature. Example display shows the cooling Wake period set for 76°.

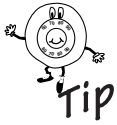
8. Press Leave, Return or Sleep and repeat steps 3 through 6 to program the entire day. The day (first day of a 7-day schedule) is now programmed. Leave Return Sleep

IMPORTANT

Repeat steps 1 through 7 for each day of the week that has a different schedule from the first day. Or refer to Copying a Day section to copy any programmed day to another day.

9. Press Run Program key to return to normal operation. Run Program

Copying a Day



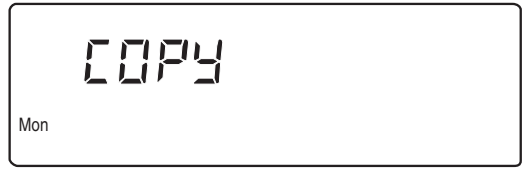
The thermostat must be in the program mode to use the copy feature. Go to step 2 if the thermostat is already in the program mode (set program displays in the upper left corner).

1. Press Wake, Leave, Return or Sleep key to enter program mode. Wake Leave Return Sleep

2. Press Day key to select the day to copy from. Day

Press Day key to select the day schedule to copy. Example display shows the thermostat in program mode with Monday ready to be copied.

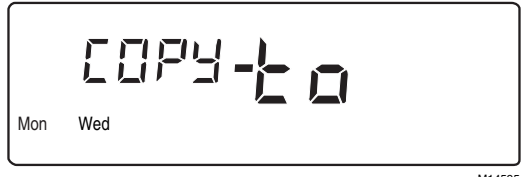
3. Press Copy key.



M14594

Press Copy key to copy a day schedule into memory. Example display shows Monday schedule was copied into memory.

4. Press Day key until the day to be copied to is displayed.

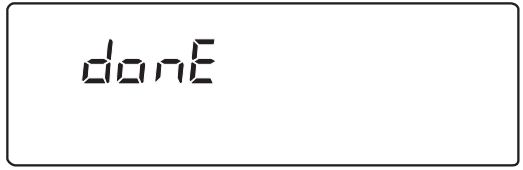


M14595

Press Day key again to select the day to copy to. Example display shows Monday and Wednesday. Because Monday was already selected, Monday schedule will be copied to Wednesday.

5. Press Copy key. Copy

NOTE: “donE” displays for two seconds before the normal display returns.



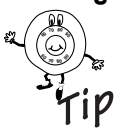
M14596

Press the Copy key again to complete the copy command. Example display shows “donE”. Monday schedule was successfully copied to Wednesday (Monday and Wednesday now have the same schedule).

6. Repeat steps, as necessary, for all the periods and days desired.

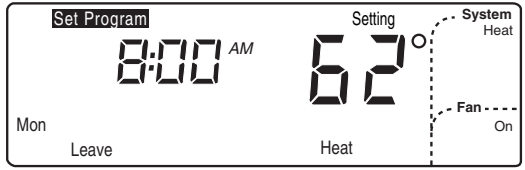
7. Press Run Program key to return to normal operation. Run Program

Clearing a Program Period



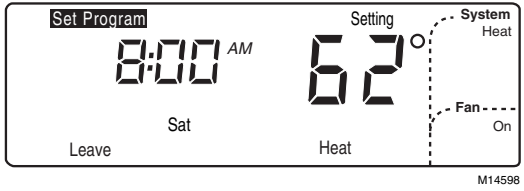
The thermostat must be in the program mode to use the clear feature. Go to step 2 if the thermostat is already in the program mode (Set Program displays in upper left corner).

1. Press Leave, Return or Sleep key to enter program mode. Leave Return Sleep



Press Leave, Return, or Sleep to enter the program mode. Example display shows 8:00 AM on Monday in the Leave period with Heat set for 62° .

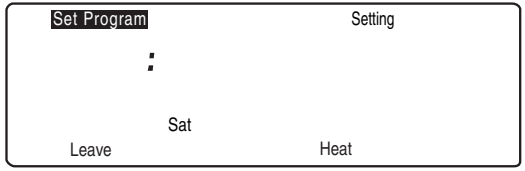
2. Press Day key until the desired day displays. Day



Press Day key to select the day to begin clearing the periods. Example display shows Saturday is selected

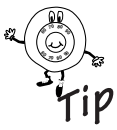
3. Press and hold Leave, Return or Sleep key until the start time and temperature setting are cleared (approximately three seconds). Leave Return Sleep

NOTE: Wake cannot be cleared.



M14599

Press and hold Leave, Return or Sleep key to clear the period for that day. Example display shows Saturday Leave period cleared.



You do not have to program a replacement time for the remaining periods; for example, Wake and Sleep. If you clear only the Leave and Return periods for Saturday (or any day), the thermostat remains in the Wake period for all of Saturday until the Sleep period.

4. Repeat steps, as necessary, for all the periods to be cleared.

5. Press Run Program key to return to normal operation. Run Program

TROUBLESHOOTING

Symptom	Possible Cause	Action
Display does not come on.	Thermostat is not being powered.	Check if the thermostat is mounted and latched on the wallplate—mount and latch the thermostat on the wallplate. Check if the circuit breaker is tripped—reset the circuit breaker. Check if the fuse at the fuse box is blown—replace the fuse. Check if the system switch at the equipment is in the Off position—set to the On position.
Temperature setting does not change (Example: cannot set the heating higher or the cooling lower).	The upper or lower temperature limits were reached.	Check that the temperature setpoints are: Heating: 40 to 90°F (4 to 32°C) Cooling: 55 to 99°F (13 to 37°C).
Heating does not come on.	No power to the thermostat. System selection is not set to Heat. Heating setpoint is below room temperature.	Check that setpoint is above room temperature. Check if the circuit breaker is tripped—reset the circuit breaker. Check if the fuse at your fuse box is blown—replace the fuse. Check if the System switch at the equipment is in the Off position—set to the On position. Wait five minutes for the system to respond (thermostat displays “ Wait”). Set System selection to Heat.

continued

Troubleshooting (Cont)

Symptom	Possible Cause	Action
Cooling does not come on.	No power to the thermostat. System selection is not set to Cool. Cooling setpoint is above room temperature.	Check that setpoint is below room temperature. Check if the circuit breaker is tripped—reset the circuit breaker. Check if the fuse at the fuse box is blown—replace the fuse. Check if the System switch at the equipment is in the Off position—set to the On position. Wait five minutes for the system to respond (thermostat displays " Wait"). Set System selection to Cool.
System on indicator— for heat, for cool— is lit, but no warm or cool air is coming from the registers.	Heating/cooling equipment turns on the fan when the equipment has reached the preset time or temperature.	Wait a minute after seeing the or and then check the registers.
"Filter" is displayed and the green LED is lit.	Filter expired.	Refer to the Filter Indicator section.
The red LED is lit.	The heat pump signaled the thermostat to indicate a problem.	Move the System switch to Em.Ht setting (multistage heat pump only). See Heat Pump Operating Instructions or call your local heat pump dealer for assistance.

continued

Troubleshooting (Cont)

Symptom	Possible Cause	Action
Outdoor temperature not displayed or is incorrect.	Installer did not activate this option. Outdoor sensor is connected incorrectly. Filter expired.	Contact installer or service technician. Press [i] key twice for outdoor temperature when filter expiration shows on display.Refer to the Filter Indicator section.
“no com” is displayed.	The thermostat is unable to communicate with the equipment interface module located at the furnace.	Turn the power off and then on to your furnace. If the problem persists, call your local heating and air conditioning dealer for assistance.
is flashing and there is no air coming from the register.	When using the thermostat in zoning applications, the thermostat must wait for all other zones to end their call for heat or cool before the fan request in this zone is honored.	Wait until all other zone heat or cool cycles are complete.
Heat or cool turns on before programmed time.	Adaptive Intelligent Recovery™ control is on.	Adaptive Intelligent Recovery™ control brings the heat or cool on early to meet the temperature set for the programmed period. See Adaptive Intelligent Recovery™ control section. To disable Adaptive Intelligent Recovery™ control, contact your l ocal Heating and Air Conditioning contractor.

WARRANTY

Honeywell warrants this product, excluding battery, to be free from defects in the workmanship or materials, under normal use and service, for a period of one (1) year from the date of purchase by the consumer. If, at any time during the warranty period, the product is defective or malfunctions, Honeywell shall repair or replace it (at Honeywell's option) within a reasonable period of time.

If the product is defective,

(i) return it, with a bill of sale or other dated proof of purchase, to the retailer from which you purchased it, or

(ii) package it carefully, along with proof of purchase (including date of purchase) and a short description of the malfunction, and mail it, postage prepaid, to the following address:

Honeywell Return Goods
Dock 4 MN10-3860
1885 Douglas Drive North
Golden Valley, MN 55422

This warranty does not cover removal or reinstallation costs. This warranty shall not apply if it is shown by Honeywell that the defect or malfunction was caused by damage which occurred while the product was in the possession of a consumer.

Honeywell's sole responsibility shall be to repair or replace the product within the terms stated above. HONEYWELL SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.

Warranty (Cont)

THIS WARRANTY IS THE ONLY EXPRESS WARRANTY HONEYWELL MAKES ON THIS PRODUCT. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS HEREBY LIMITED TO THE ONE YEAR DURATION OF THIS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

If you have any questions concerning this warranty, please write our Honeywell Customer Relations, 1985 Douglas Drive North, Golden Valley, MN 55422. In Canada, write Retail Products ON15-02H, Honeywell Limited/Honeywell Limitée, 35 Dynamic Drive, Scarborough, Ontario M1V 4Z9.

CUSTOMER ASSISTANCE

After reading this guide, if you have any questions about the operation of your thermostat, please visit the Honeywell website at www.honeywell.com/yourhome. For service, contact your local heating and cooling contractor.

Honeywell

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